

**origin:** United States. **cultivar:** GR8936. **pedigree:** A3127/L24, F5 Selection. **other id:** CV-247. **group:** CSR-SOYBEAN. **other id:** HM8486. **other id:** PVP 8700128. **source:** Certificate in force. **group:** PVPO. **restricted:** REQ. **remarks:** Cultivar with high yield and multi-race phytophthora rot resistance. Maturity Group III. Flowers white. Pubescence tawny. Pods tan. Seed dull yellow with black hila. Adapted from 39 to 41 degree North latitude. Yield 6% and 7% higher than A3127 and Harper in Ohio. Susceptible to Pmg races 12, 16, 19, 20, and 25. **disease resistance:** Phytophthora rot (Phytophthora megasperma f. sp. glycinea). Moderate to pod and stem blight (Diaporthe phaseolourm). Powdery mildew (Microspora diffusa). Annual. Cultivar. Seed.

PI 534649 to 534658. *Helianthus annuus* L. ASTERACEAE Sunflower

**Donated by:** Miller, J.F.; Gulya, T.J., USDA-ARS, Northern Crop Science Lab., North Dakota State University, Fargo, North Dakota, United States. **remarks:** Developed cooperatively by USDA-ARS and North Dakota Agricultural Experiment Station, Fargo, North Dakota and released April, 1988. Received August 15, 1910.

PI 534649 **donor id:** RHA 363. **origin:** United States. **pedigree:** Hysun 33/RHA 274, F5 derived F7. **other id:** GP-110. **group:** CSR-SUNFLOWER. **remarks:** Germplasm restorer line with genetic diversity for agronomic and morphological characteristics and seed oil content. Genes for fertility restoration in male sterile cytoplasm (*H. petiolaris*) present. Plant height 76cm. Upper stem branching. Seed oil content 511gms per kg. Days to 50% bloom 67. Susceptible to downy mildew (*Plasmopara halstedii*) races 1 to 5 and sunflower rust (*Puccinia helianthi*) race 4. **disease resistance:** Sunflower rust (*Puccinia helianthi*) races 1 to 3. Annual. Genetic Material. Seed.

PI 534650 **donor id:** RHA 364. **origin:** United States. **pedigree:** F6 derived restorer line selected from Romanian hybrid Felix. **other id:** GP-111. **group:** CSR-SUNFLOWER. **remarks:** Germplasm restorer line with genetic diversity for agronomic and morphological characteristics and seed oil content. Genes for fertility restoration in male sterile cytoplasm (*H. petiolaris*) present. Plant height 75cm. Single head. Days to 50% bloom 63. Seed oil content 505gms per kg. Susceptible to downy mildew (*Plasmopara halstedii*) races 1 to 5. and sunflower rust (*Puccinia helianthi*) races 1 to 4. **disease resistance:** Tolerance to sclerotinia wilt (*Sclerotinia sclerotiorum*). Annual. Genetic Material. Seed.